

# Notice of Allowability

Application No.

10/682,066

Applicant(s)

YAMAGUCHI ET AL.

Examiner

Brandi N Thomas

Art Unit

2873

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to \_\_\_\_\_.
2. ☒ The allowed claim(s) is/are 13-24.
3. ☒ The drawings filed on 10/9/03 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All b) ☐ Some\* c) ☐ None of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 0401
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

  
**RICKY MACK**  
**PRIMARY EXAMINER**

### REASONS FOR ALLOWANCE

1. Claims 13-24 have been allowed.
2. The following is an examiner's statement of reasons for allowance: The prior art taken either singularly or in combination fails to anticipate or fairly suggest the limitations of the independent claim(s), in such a manner that a rejection under 35 U.S.C. 102 or 103 would be proper. The prior art fails to teach a combination of all the claimed features as presented in claim(s) 13-24, wherein the claimed invention comprises a rear projection display comprising a spatial modulation element and a rear projection screen, wherein said display comprises further limitations defined by claimed Formula II-1 and Formula II-2 where: Formula II-1 requires  $t1 \geq f1$ , and Formula II-2 requires  $t2 \leq f1 * Pg/P1$  wherein  $t1$  is the distance between a light-projected-side surface of the diffusing layer and a focal plane of the lenticular lens array and a distance,  $t2$  is the distance between an image-observed-side surface of the diffusing layer and the focal plane of the lenticular lens array,  $f1$  is a distance between a valley of the lenticular lens array and the focal plane,  $Pg$  is a pixel pitch on the screen, and  $P1$  is an array pitch of the lenticular lens array; Remaining independent claims likewise recite conditions not taught by the prior art, as claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### *Examiner's Comment*

3. Acknowledgement is made of entry of preliminary Amendment filed 10/9/03.

***Conclusion***

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ogino et al. (4919518) discloses a multi-screen projector composed of a plurality of unit module projectors piled up one upon another in the vertical direction.

McClelland et al. (5289311) discloses a rear projection screen for an image display device.

Mitani et al. (5184224) discloses a transmission-type video projection television system employs a transmission-type screen for displaying an image projected from a rear projector for visual observation by an observer.

Clausen et al. (4936652) discloses a transparent rear-light projection screen with V-shaped grooves.

Yoshida et al. (5590943) discloses a transmission screen for a rear projection type image display apparatus having at least one image generation source for displaying images.

Miyata (6271965 B1) discloses a rear projection screen including lens sheets or optical sheets having an optical function of condensing or diffusing light.

Ogino (4725134) discloses a rear image projection apparatus having a transmissive screen of high efficiency and low disturbance.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brandi N Thomas whose telephone number is 571-272-2341.

The examiner can normally be reached on 8-5.


Art Unit: 2873

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Epps can be reached on 571-272-2328. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BNT

BNT  
April 19, 2004

  
RICKY MACK  
PRIMARY EXAMINER